

Soil Investigation

Soil Infiltration Data Work Sheet

Site Name: _____

Name of Collector/Analyst/Recorder: _____

Sample collection date: _____

time: _____ (hours and minutes) check one: UT____ Local ____

Distance to Soil Moisture study site marker _____ m

Sample Set number: _____ Width of your reference band: _____ mm

Diameter: Inner Ring: _____ cm Outer Ring: _____ cm

Heights of reference band above ground level: Upper : _____ mm Lower : _____ mm

Saturated Soil Water Content below infiltrometer after the experiment:

A. Wet Weight: _____ g B. Dry Weight: _____ g C. Water Weight (A-B): _____ g

D. Container Weight: _____ g E. Dry Soil Weight (B-D): _____ g F. Soil Water Content (C/E) x 100 _____

Daily Metadata/Comments: (optional)

Directions:

Take 3 sets of infiltration rate measurements within a 5 m diameter area. Use a different data work sheet for each set. Each set consists of multiple timings of the same water level drop or change until the flow rate becomes constant or 45 minutes is up. Record your data below for one set of infiltration measurements you take.

The form below is setup to help you calculate the flow rate.

For data analysis, plot the Flow Rate (F) vs. Midpoint time (D).

Observations:

	A. Start		B. End		C. Interval (min) (B-A)	D. Midpoint (min) (A+C/2)	E. Water Level Change (mm)	F. Flow Rate (mm/min) (E/C)
	(min)	(sec)	(min)	(sec)				
1	_____	_____	_____	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____	_____	_____	_____
6	_____	_____	_____	_____	_____	_____	_____	_____
7	_____	_____	_____	_____	_____	_____	_____	_____
8	_____	_____	_____	_____	_____	_____	_____	_____
9	_____	_____	_____	_____	_____	_____	_____	_____